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The Mole Street Journal

Volume 7, Issue 1

Peng's Paper Makes Highly Cited List for the Decade

A 2000 paper by **Xiaogang Peng** has gained recognition as a "Highly Cited Paper" by the Journal of the American Chemical Society, as defined by Thomson Scientific (ISI) Essential Science Indicators.

The paper "Formation of High-Quality CdTe, CdSe, and CdS Nanocrystals Using CdO as Precursor," was published in the Journal of the American Chemical Society Communications. Peng, Z. A.; Peng, X. J. Am. Chem. Soc.; (Communication); 2001; 123(1); 183-184. DOI: 10.1021/ja003633m.

Peng is the coauthor on two other highly cited papers, both of which were published when he was at the University of California, Berkeley.

"Epitaxial Growth of Highly Luminescent CdSe/CdS Core/Shell Nanocrystals with Photostability and Electronic Accessibility," Peng, X.; Schlamp, M. C.; Kadavanich, A. V.; Alivisatos, A. P. J. Am. Chem. Soc.; (Article); 1997; 119(30); 7019-7029. DOI: 10.1021/ja970754m.

"Kinetics of II-VI and III-V Colloidal Semiconductor Nanocrystal Growth: "Focusing" of Size Distributions," Peng, X.; Wickham, J.; Alivisatos, A. P. J. Am. Chem. Soc.; (Communication); 1998; 120(21); 5343-5344. DOI: 10.1021/ja9805425.

All articles can be found on the ACS Publications Web site http://pubs.acs.org/journals/promo/most/highly_cited/index.html.

Highly cited papers are articles in the top 1 percent of the most-cited papers during the last 10 years. In the announcement, the Journal of the American Chemistry Society has identified 20 most-cited papers for the past decade. Citations are counted from all sources, and are cumulated from the year of publication through the current year.

Peng is Scharlau Professor of Chemistry. He joined the faculty at the University in 1999 and was promoted to the rank of professor in 2005. He was a staff scientist at Lawrence Berkeley National Laboratory.



Xiaogang Peng

Doctoral Candidates Defend



Sue Brand



Ryan Dossey

Sue Brand defended her dissertation "Kinetic Studies of the Reaction between Cytochrome c and Cytochrome c Oxidase," Dec. 14, under the direction of **Frank Millett**.

Brand accepted a post-doc position at Tulane University.

Ryan Dossey defended his dissertation "The Design of Ruthenium Complexes for the Study of Electron Transfer in Metalloproteins," Dec. 17, under the direction of **Bill Durham**.

Dossey is the assistant plant manager for Rineco Chemical Industries.

Faculty News

ACS Leadership

The new year brings new leadership to the Local Section of the American Chemical Society. This year all officers are members of the faculty.

- Chairman - **Suresh Kumar**
- Chair-elect - **Julie Stenken**
- Secretary/Treasurer - **Bill Durham**
- Councilor - **Neil Allison**
- Alternate Councilor - **Matt McIntosh**

Officers are elected by the membership of the UA Local Section. Alumnus **David Battaglia**, Ph.D.'04, research scientist and manager of technology and business development at NN-Labs, is past chairman.

On the Go

Bill Durham will attend the McGraw Hill General Chemistry Symposium, in Tucson, Ariz. Feb. 7-10.

Roger Koeppe is an invited speaker at the 8th International Symposium on Biochemical Roles of Eukaryotic Cell Surface Macromolecules, at the Centre for Cellular and Molecular Biology, in Hyderabad, India, Jan. 21-25.

Koeppe will present "Interactions of Tryptophan and Lysine with Membrane Lipids at the Protein/Bilayer Interface."

Student News

AED Membership Drive

The Arkansas Alpha Chapter of the national premedical honor society Alpha Epsilon Delta, is accepting applications for membership. New members will be initiated and new officers will be elected at the spring banquet January 31.

Undergraduate chemistry majors who served on the 2007 Executive Committee were **Britton Blough**, president, **Chris Hall**, secretary and **Will Fraser**, volunteer chair. **Neil Allison** and Jeanne McLauchlin are the chapter advisors.

Application forms are available on the AED Web site <http://www.uark.edu/studorg/alepdelt/>. All application materials must be submitted by noon January 24.

To become a member of AED, students must have completed a minimum of 44 credit hours by December 2007, and have an overall GPA of 3.200 and a math and science GPA of 3.200.

The mission of the Society is to encourage and recognize excellence in premedical scholarship; to stimulate an appreciation of the importance of premedical education; to promote communication between medical and premedical students and educators; to provide a forum for students with common interests; and to use its resources to benefit health organizations, charities and the community - AED National Office Web site.

Building Key System

The renovated Chemistry Building has 11 magnetic door locks which are connected to a central system maintained by Facilities Management.

The system is controlled by a program that provides a means of addressing each lock, setting the times they are open or closed and controlling access. Access is provided through card readers mounted near each of the 11 locks. The card readers are designed to use the University ID cards.

The locks are at the following locations

- parking lot and southwest hallway doors near that entrance
- garden entrance and southeast hallway doors near that entrance
- west entrance on the first floor
- library
- CHEM 105, CHEM 125 and CHEM 008

Responsibility for access rests with the chair and others designated by the chair, typically the chair's assistant. Currently, all faculty and staff have been entered into the system and we are in the process of entering the graduate students and postdocs.

This system is the same as used in other buildings, e.g. Ferritor Hall. For those of you not familiar with the system, the card is inserted at the bottom of the reader. When the doors are locked the card readers will have a red light, when unlocked the light will be green. In order to get the card correctly oriented simply place your thumb over your picture.

On the Web

New Site for Opportunities

The department receives notification of job openings and other opportunities weekly. This list used to be posted on the department Web site but has now moved to the department WebCT site.

Web CT

Log-on to the department WebCT site <http://WebCT.uark.edu/> for the calendar of events, department directory, forms, agendas and more.

All faculty, staff, researchers and graduate students should have access. Log-on using your UARK e-mail user name and passcode. The passcode is known only to you.

Contact cheminfo@uark.edu to gain access to the WebCT site or to make comments or suggestions.

Department Holiday Potluck

The annual department holiday potluck took place on Dead Day. This was the first year the event took place in the renovated building. The culinary offerings were consumed and the administrative suite was full. Below are assorted snapshots. Happy New Year!



At left: Jim Hinton and Suresh Kumar as Feng Chen and Gwen Mattice look on. Above: Diners flow through the food line.



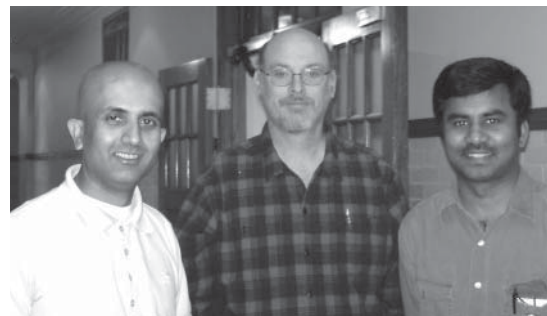
Above left: Barbara Wisman and emeriti Jim Wisman and George Blyholder. Above center: Postdocs Leena Philominathan and Anna Miller. At right: Chairman Bill Durham slices a ham.

January Safety Tip

**It is far better
that you
address the
safety issues
in your
laboratory than
someone else**



Above: Lab coordinator David Hayes and his wife Victoria. Above right: Rohana Liyanage, Jack Lay and Kathir Karuppanan. At right: Graduate students Richard Smart, Charleigh English and Andy Williams.



Calendar of Events

January

- 07..... Department seminar
- 09..... Open registration begins
- 09..... Department seminar
- 14..... Spring 2008 classes begin
- 14..... Department seminar
- 16..... Department seminar
- 18..... Last day to add a course
- 18..... CUME
- 21..... U of A CLOSED Martin Luther King Day
- 24..... Department seminar
- 28..... Last day to change from credit to audit or drop a full semester course without a "W"
- 28..... No seminar

February

- 04..... No seminar
- 08..... CUME
- 11..... Department seminar
- 18..... Department seminar
- 25..... Department seminar
- 29..... CUME

March

- 03..... Department seminar
- 10..... Department seminar
- 17-21 Spring Break, NO CLASSES
- 21..... U of A CLOSED
- 24..... Department seminar
- 28..... CUME
- 28..... Last day to drop a full semester course with a "W"
- 31..... Priority registration begins for summer and fall
- 31..... Department seminar

April

- 06-10 ACS Meeting, New Orleans
- 07..... No seminar
- 14..... Department seminar
- 18..... CUME
- 21..... Department seminar
- 28..... Department seminar

May

- 01..... Last day of classes for spring 2008
- 01..... Last day to officially withdraw from all courses
- 02..... Dead day, NO CLASSES
- 03-09 Final exams
- 10..... Commencement

January Birthdays

- 01.....Sefat Alwarsh
- 06.....S. Mariccor Batoy
- 06.....Marissa Geels
- 10.....George Blyholder
- 10.....Vitaly Vostrikov
- 11.....Jason Martin
- 12.....Lindsay Rutherford
- 19.....Tamilselvi Marutharaj
- 20.....Jon Baker
- 22.....Leena Philominathan
- 24.....Shuming Zhang
- 26.....Bill Durham
- 30.....Brandon Suttles

The publishing of birthdays is not intended to invade the privacy of anyone. If you prefer not to be included, please let us know.

Library Hours

Chemistry and Biochemistry

Spring Regular Hours

begin January 14

Monday - Thursday....8 a.m. to 9 p.m.

Friday8 a.m. to 6 p.m.

Sunday.....2 p.m. to 6 p.m.

Closed Saturdays

Exceptions to regular hours in January

Jan. 2-4 8 a.m. to 5 p.m.

Jan. 5-6 CLOSED

Jan. 7-11 8 a.m. to 5 p.m.

Jan. 12-13 CLOSED

<http://libinfo.uark.edu/chemistry/>

The University of Arkansas will be closed for Martin Luther King Day, Monday Jan. 21.

CUME Dates

Cumulative exams for graduate students will take place on the following dates from 5 p.m. to 6 p.m. in CHEM 144:

- Jan. 18
- Feb. 8
- Feb. 29
- Mar. 28
- April 18